Best Practice

Working safely with James Hardie fibre cement products

March 2014 / New Zealand

James Hardie
a smarter way™

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We Value Your Feedback

To continue with the development of our products and systems, we value your input. Please send any suggestions, including your name, contact details, and relevant sketches to:

Ask James Hardie™
Fax 0800 808 988
literaturefeedback@jameshardie.co.nz

Foreword

James Hardie, a world leader in the manufacturing and development of fibre cement building products, has produced this Best Practice guide to help builders/installers.

The first sections of this manual provide a general product description and information about safe practices, and recommended tools for working with James Hardie building products.

This guide must be read in conjunction with project drawings and specifications, applicable building codes, and relevant compliance documents. The details in this manual provide guidance on how to comply with James Hardie's installation requirements and need to be reviewed by all parties who are responsible for installing James Hardie products on a project.

This manual is subject to periodic re-examination and revision. For information on the current status of these documents please check the James Hardie website, www.jameshardie.co.nz. The reader is responsible for ensuring that they are using the most up-to-date information.

Why should I read this?

To work safely, you need to understand the hazards and know how to minimise the risks.

At James Hardie we believe that safety should be of paramount importance to everyone. We are committed to the safe use of our products.

This guide is a straightforward approach to jobsite safety through the use of best practices with James Hardie products.

It's good to remember that 'Best Practice' is much more than simply a 'strong suggestion'. It is a work ethic that if followed has tangible benefits that will positively influence your quality of work and wellbeing, leading to greater efficiency, and importantly, improved worksite safety.

Silica - what is it?

Commonly known as sand or quartz, silica is the second most common mineral on earth and is found in many common building products.

Silica is commonly found in building products like concrete, bricks, grout, wallboard, ceramic tiles, glass, dirt and all fibre cement materials, such as James Hardie building products.

It would almost be impossible for people not to come into contact with silica every day.

The hazard

The capability to cause harm.

Silica when it's intact is harmless. However when it is cut, drilled or otherwise abraded silica is released as fine particles that can be inhaled deep into the lungs.

Breathing excessive amounts of respirable silica can cause a potentially fatal lung disease called silicosis, and has been linked with other diseases. Some international authorities consider respirable silica to be a cause of cancer. Some studies suggest smoking may increase these risks.

The risk

The likelihood of the hazard causing harm.

James Hardie's Best Practice recommendations are designed to minimise the risk of harm from silica exposure.

James Hardie products meet or exceed all applicable government safety standards, when used in accordance with best practice including recommended tooling guidelines.

Risk factors

- Exposure concentration.
- Duration and frequency of exposure.
- External health factors.

Silica can be an occupational hazard for the whole industry but can be managed by adopting best practices, which includes appropriate tooling.

Safe working practices

WARNING — AVOID BREATHING SILICA DUST

James Hardie products contain respirable crystalline silica which is considered by relevant government authorities to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling: (1) work in outdoor areas with ample ventilation; (2) minimise dust when cutting by using either 'Score and Snap' knife, fibre cement shears or, where not feasible, use a HardieBlade™ Saw Blade and dust-reducing circular saw attached to a HEPA vacuum; (3) warn others in the immediate area to avoid breathing dust; (4) wear a properly-fitted, approved dust mask or respirator (e.g. P1 or P2) in accordance with applicable government regulations and manufacturer's instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet cleanup methods — never dry sweep. For further information, refer to our installation instructions and Safety Data Sheet available at www.jameshardie.co.nz

FAILURE TO ADHERE TO OUR WARNINGS, SAFETY DATA SHEETS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

James Hardie recommended safe working practices
CUTTING OUTDOORS
1. Position cutting station so wind will blow dust away from the user or others in working area. 2. Use one of the following methods based on the required cutting rate: **BEST** • Score and snap • Hand guillotine • Fibreshear **BETTER** • Dust reducing circular saw equipped with HardieBlade™ Saw Blade and HEPA vacuum extraction. **GOOD** • Dust reducing circular saw with HardieBlade™ Saw Blade.
CUTTING INDOORS
• Cut only using score and snap, hand guillotine or fibreshears (manual, electric or pneumatic) • Position cutting station in well-ventilated area
SANDING/REBATING/DRILLING/OTHER MACHINING
When sanding, rebating, drilling or machining you should always wear a P1 or P2 dust mask and warn others in the immediate area.
IMPORTANT NOTES
1. For maximum protection (lowest respirable dust production), James Hardie recommends always using "Best" — level cutting methods where feasible. 2. NEVER use a power saw indoors. 3. NEVER use a circular saw blade that does not carry the HardieBlade™ logo. 4. NEVER dry sweep — Use wet suppression or HEPA vacuum. 5. NEVER use grinders. 6. ALWAYS follow tool manufacturers' safety recommendations.
P1 or P2 respirators should be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at www.jameshardie.co.nz to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

Handling and storage of James Hardie products

James Hardie building products should be stored in their original packaging, preferably under cover like a garage or in some other covered area protected from weather whenever possible. These products must be kept dry and should be kept covered on a pallet off of the ground; they must never be stored in direct contact with the ground.

If James Hardie products become saturated, they must be laid on a flat surface and allowed to dry completely prior to installation.

James Hardie is not responsible for damage due to improper storage and handling of its products.

James Hardie products are robust and durable once installed. It is important to keep the product dry in storage and during installation.

If product becomes saturated prior to installation the following can occur.

- Shrinkage at joints.
- Staining. A deposit of soluble salts, usually white in colour.
- Difficulty in handling due to the increased weight and added flexibility once saturated.

(James Hardie is not responsible for damage due to improper storage and handling).

Storage

Products should be:

- Stored in their original packaging in a covered area, when possible.
- Covered on a pallet and must not be stored directly on the ground (figure 1).
- Protected with a waterproof covering, if storage outside is unavoidable (figure 2).
- Stored flat and above ground (figure 1).

Figure 1

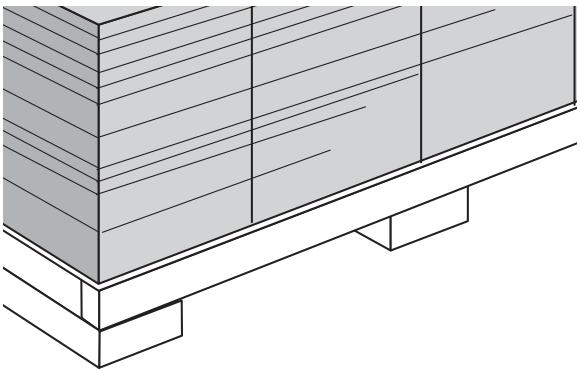
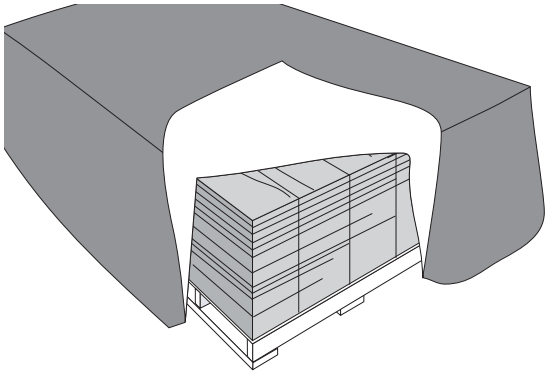


Figure 2



⚠ WARNING

James Hardie products should not be rolled-off or dumped-off of the truck during delivery to the jobsite. James Hardie recommends using a fork lift to off load material or unloading by hand.

Handling

A few simple techniques make handling of James Hardie materials a breeze.

For planked products

- Do not lift planked products flat and in the middle (figure 3).
- Carry the products on edge (figure 4).
- If only one person is carrying the product, hold it in the middle and spread arms apart to better support the product (figure 5).
- If two people are carrying the plank, hold it near each end and on edge (figure 6).

Figure 3

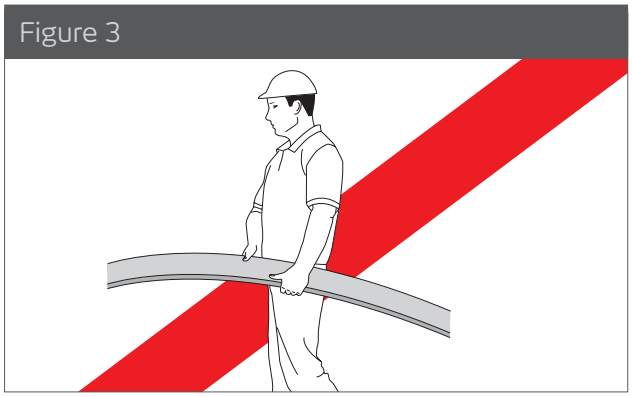


Figure 4

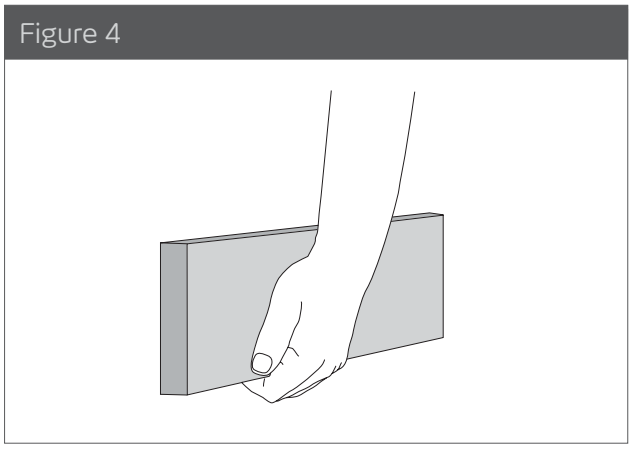
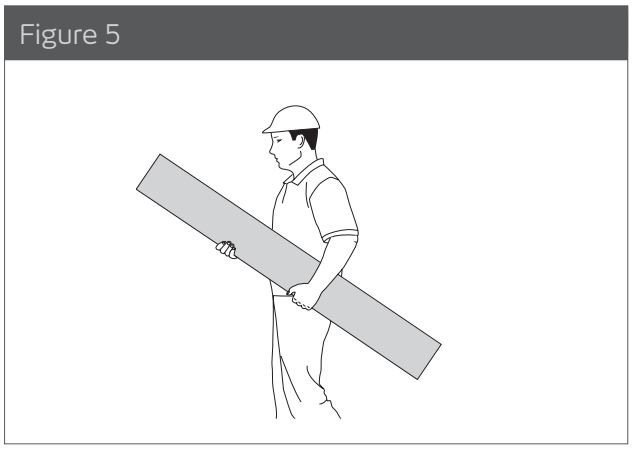


Figure 5



For panel products

- Carry with two people (figure 8).
- Hold near each end and on edge.
- Exercise care when handling panel products to avoid damaging the corner.

Figure 6

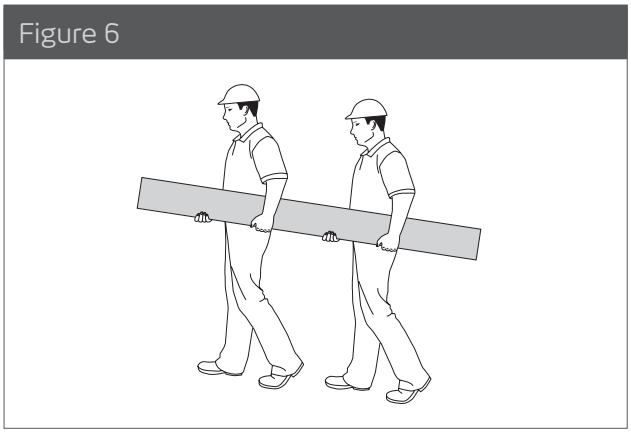


Figure 7

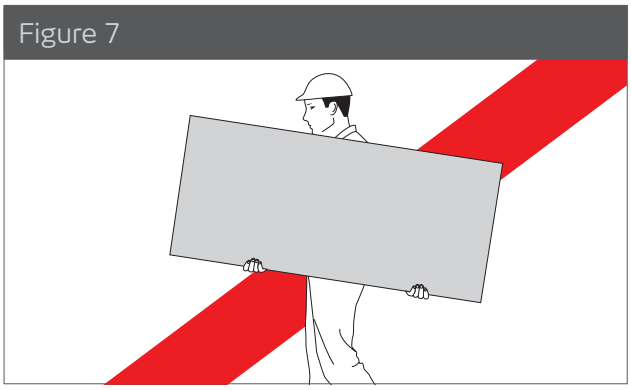
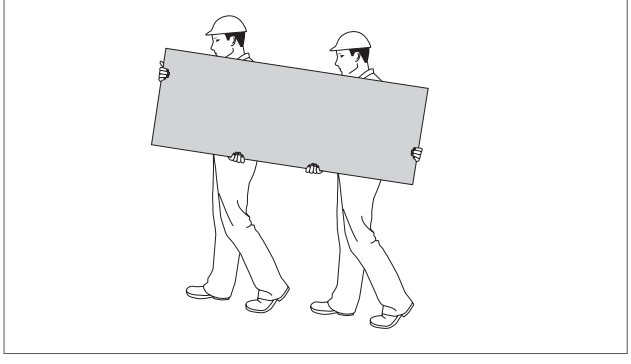


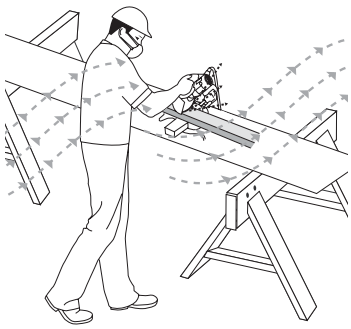
Figure 8



Tip: When handling panel products, manufacturered panel carriers or caddies can give workers a better control.

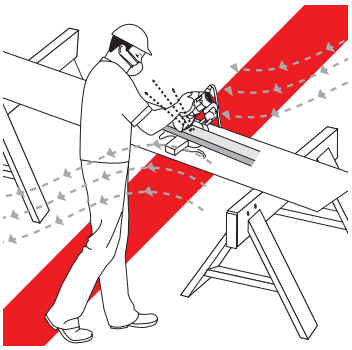
Correct:

Dust blown away from user breathing zone. Tool attached to vaccum.



Wrong:

Dust blown into user breathing zone.



Jobsite best practice

James Hardie believes that safety is of paramount importance to everyone and is committed to safe use of our products and safety of your worksite.

Best practice information on all James Hardie products can be found in our installation manuals and technical specifications or at www.jameshardie.co.nz.

If there is additional concern about silica exposure levels, you should always consult a qualified industrial hygienist.

Cutting indoors

Cut only using score and snap, hand guillotine or fibreshears (manual or electric). Position cutting station in a well-ventilated area.

Sanding, rebating, drilling or other machining

When sanding, rebating, drilling or machining you should always wear a P1 or P2 respirator and warn others in the immediate area.

Cutting outdoors

Position cutting station so that the wind will blow dust away from the user and others present in the surrounding area.

Use one of the following methods based on the required cutting rate:

Best
- Score and snap
- Hand guillotine
- Fibreshear

Better
- Dust reducing circular saw equipped with HardieBlade™ Saw Blade connected to a vacuum with HEPA filter

Good
- Dust reducing circular saw with HardieBlade™ Saw Blade

Important Notes

- For maximum protection (lowest respirable dust exposure), James Hardie recommends always using “Best” level cutting methods where feasible.
- Never use a power saw indoors.
- Never use a circular saw blade that does not carry the HardieBlade™ logo.
- Never dry sweep - use wet suppression or HEPA vacuum.
- Never use grinders.
- Always follow tool manufacturer’s safety recommendations.
- P1 and P2 respirators should be used in conjunction with cutting practices to further reduce dust exposure.

Note:
Cutting recommendations vary from product to product. Refer to our installation manuals or technical specifications for product specific best practice recommendations.

HardieBlade™ Saw Blade is designed specifically for fibre cement and produces less respirable dust compared to traditional masonary blades.

⚠ WARNING

Tools and blades are designed to reduce breathable silica and do not always result in safe levels by themselves. Many other factors can influence dust exposure including jobsite ventilation, the amount of material being cut and breathing protection being used. If uncertain about exposure or protection in a specific situation, always consult a qualified industrial hygienist to determine actual exposure levels.

Tool Guide: for James Hardie fibre cement products

No matter what James Hardie building product you choose, using the correct tool is a critical step in helping to complete the installation faster, safer and more efficiently. That's why we have sought advice from other industry leaders to create this tooling guide for your reference.

Our goal has been to source the complete package of tools and accessories either specifically designed or otherwise suitable for use with James Hardie building products - all should help with ease of correct installation and help to improve installation efficiency and long lasting durability that James Hardie products offer.

James Hardie actively promotes the use of the right tools with recommended best practices. Also refer to our silica guide which contains information on silica, including its potential hazards and how these can be safely managed using best working practices.

It is important to note that this guide needs to be read in conjunction with the technical specification or installation manual, for each specific James Hardie product you are working with. These manuals provide specific information relating to the product you are using.

You must read and follow the tooling manufacturer's instructions/specifications for using the tools recommended in this guide. Also contact them for routine maintenance or for any trouble-shooting with these tools.

HardieBlade™ Saw Blade

The only blade recommended by James Hardie.

NEVER USE A CARBIDE FRAMING BLADE OR CONTINUOUS RIM DIAMOND BLADE.

The HardieBlade saw blade generates larger dust particles and reduces the risk of respirable silica when used with a vaccum system.

The 185mm diamond tip HardieBlade saw blade fits a dust reducing 185mm circular saw.

The 254mm diamond tip HardieBlade fits a dust reducing drop saw.

Always use circular saws outdoors and in a well ventilated area.

Blades are also available through Makita and Hitachi at your local merchant.

James Hardie has worked with tool and blade manufacturers to develop tools to specifically minimise dust exposure.

Circular saws

Circular saws fitted with a HardieBlade Saw Blade are suitable for cutting James Hardie building products. Before cutting any product, you should review the installation recommendations in the technical information for that specific product.

A circular saw can be used when a high rate of cutting is required. A circular saw is only suitable for use outdoors, in well-ventilated areas.

Recommended tools to cut James Hardie fibre cement products include the following.

HITACHI 185MM DUST-REDUCING CIRCULAR SAW - MODEL C7YA

- Easily attaches to tool start vacuum with HEPA filter to further reduce dust exposure.
- Equipped with a transparent slide cover which can be moved up and down to see the cutting edge easily.
- Lever enables lower guard to be fully retracted for easier pocket cutting.
- Spindle lock for fast and easy blade change in the same manner as a circular saw.
- Always use with a HardieBlade™ Saw Blade when cutting James Hardie fibre cement.

HITACHI C7YA

MAKITA MODEL 5057KB

- Easily attaches to tool start vacuum with HEPA filter to further reduce dust exposure.
- 185mm (7¼") dust-reducing circular saw.
- Powerful 1400w motor.
- Fully enclosed, transparent upper guard.
- Always use with a HardieBlade™ Saw Blade when cutting James Hardie fibre cement.

MAKITA 5057KB

FESTOOL TS 55 REBQ-PLUS-FS AUS

FESTOOL TS 55 REBQ-Plus-FS AUS

- Maximum flexibility thanks to flat housing for minimum wall distance
- Even more precise thanks to angle setting with snap-in points and indentation (-1° and/or 47°)
- Guide wedge for safer work and simple positioning in existing joint
- Good view of scribe line and saw blade thanks to the new flush and moveable viewing window
- Improved dust extraction thanks to the new shape of the extraction duct
- Simpler operation with the double cutting depth scale (with/without guide rail)

More benefits: splinterguard, FastFix, play adjustment without the need for tools, quick brake, etc.

125MM FIBRE CEMENT CUTTER CM5SB

125MM FIBRE CEMENT CUTTER CM5SB

- Suitable for smaller jobs or cutting fibre cement insitu.
- Efficient dust extraction when used with vacuum attachment
- Tool-less depth adjustment for quick changes when making multiple passes or to avoid cutting below a sheet
- Tool-less cover removal allows access to quickly remove and replace blades
- Powerful 1300W motor with high overload durability
- Spindle lock for quick and easy wheel changes

Compound mitre saws

Use with Scyon Linea Weatherboard and James Hardie Weatherboard

HITACHI MODELS C10FSB/C10FSH

- 262mm slide compound saw.
- Easily attaches to tool start vacuum with HEPA filter to further reduce dust exposure.
- Positive angle stoppers for easy adjustment of the turntable position for mitre cutting (at the right and left of the 0° centre setting, at 15°, 22.5°, 31.6° and 45° settings).
- Electronically controlled soft start and constant speed for smooth, accurate cutting, fine surface finish, and low noise operation.
- Built in laser guide shows exactly where blade will cut (C10FSH only).
- Always use with a HardieBlade™ Saw Blade when cutting James Hardie fibre cement.

HITACHI C10FSB/C10FSH

MAKITA MODEL LS1016

- DXT (Deep eXact cutting Technology)
- Dual slide system with 4 short poles offer greater stability
- 6 linear ballbearings support smooth, superbly accurate cutting
- Soft start, electric brake
- MITRE's 60° right and 52° left
- Included accessories:
- Standard: 60th TCT blade (A-89311), Vertical vice, Socket wrench, Sub-fences L&R, Dustbag, Triangular rule

MAKITA LS1016

MAKITA LS1216

MAKITA MODEL LS1216

- DXT (Deep eXact cutting Technology)
- Dual slide system with 4 short poles offer greater stability
- 6 linear ballbearings support smooth, superbly accurate cutting
- Soft start, electric brake
- MITRE's 60° right and 52° left
- Improved mitre lock system
- Horizontal handle for more comfortable operation
- Included accessories:
- Standard: 60th TCT blade, Vertical vice, Socket wrench, Sub-fences L&R, Dustbag, Triangular rule

MAKITA LS0714

MAKITA MODEL LS0714

- 190mm dual slide compound mitre saw.
- Easily attaches to tool start vacuum with HEPA filter to further reduce dust exposure.
- Double slide action.
- Huge 300mm width of cut.
- Geared drive system.
- Depth stop adjustments for trenching.
- Removable lock off button for safety and security.
- Large stable base.
- Always use with a HardieBlade™ Saw Blade when cutting James Hardie fibre cement.

FESTOOL KS 120 UG-SET

FESTOOL KS 120 UG-SET

- Twin-column guide for accurate cuts
- Compact, lightweight design for convenient transportation
- FastFix saw blade changing for adaptation to the working material
- Precision angle transfer via bevel and dual-line laser
- Fine adjustment of the saw blade angle accurate to the millimetre from the front of the machine
- Safety brake

Dust extraction equipment

James Hardie recommends the use of a tool start vacuum fitted with a paper dust bag and HEPA filter for efficient dust collection and performance.

Prolongs the lifespan of your power tools by limiting the amount of dust entering your power tools and reducing the risk of breakdowns. Promotes a healthy work environment by reducing the risk of inhalation of fine dust particles.

MAKITA 447L - INDUSTRIAL DUST EXTRACTOR and HEPA FILTER

- Totally automatic self cleaning air pulse filtering system
- 45 litre capacity
- Variable suction control for delicate work
- Auto cut out carbon brushes to prevent motor burnout
- Ideal extractor when working with masonry or fibre cement products
- Comes with cleaning wand and floor tool
- Included accessories:
- Standard: Filter cartridge, 36mm hose (A-44021), disposable plastic liners (302001311), cleaning kit.

NILFISK ATTIX 560-21XC INDUSTRIAL VACUUM/DUST EXTRACTOR

- XtremeClean automatic filter cleaning system
- Powerful 1500W Bypass motor – built to handle the tough tasks
- 45 litre corrosion proof container
- Auto on/off auxiliary power socket for connection to power tools
- Low noise, soft start
- Heavy duty construction
- Washable PET Nano fibre filter achieves around 99.9% filtration efficiency

FESTOOL CLEANTEX EXTRACTOR CT 26E

- Approved for dust category L
- Antistatic function prevents static developing during work
- Constantly high suction because of the compact high performance turbine
- Attachment of Systainers via Sys-Dock
- Hose garage and cable windup for greater tidiness and safety
- Economical because of the optimal use of the available volume with a SELFCLEAN filter bag in the container

HILTI VC40-U/M

- 20 litre capacity
- large wheels
- air boost filters
- compact, mobile, robust

MAKITA 447L

NILFISK ATTIX 560-21XC

FESTOOL CLEANTEX EXTRACTOR CT 26E

HILTI VC40-U/M

PASLODE DUOFAST COIL NAILER D40030

PASLODE IMPULSE FRAMEMASTER - B20543

PASLODE IMPULSE IM250S FINISHING B20710

PASLODE PF350-S POWERMASTER FRAMING

Nail guns

For installing James Hardie products with nail guns, please refer to the technical specification for fastener requirements or installation manual for each specific James Hardie product you are working with.

PASLODE® DUO-FAST PNEUMATIC CNP65 COIL NAILER D40030

- Duo-Fast pneumatic technology
- Power and reliability for volume construction projects
- Suitable for 0° plastic collated coil nails up to 65mm length
- Tool-free depth of drive adjustment
- Large 300 coil nail capacity

PASLODE® IMPULSE® FRAMEMASTER-LI™ FRAMING NAILER (B20543)

- Paslode Impulse gas technology
- Lithium-ion battery technology
- Low tool actuation pressure
- Suitable for 44 to 90mm length nails
- No Mar(k) Guide available to prevent damage to timber and cladding surfaces (sold separately)

PASLODE® IMPULSE® IM250S-LI FINISHING NAILER (B20710) (STRAIGHT BRAD NAILER)

- Paslode Impulse gas technology
- Lithium-ion battery technology
- Suitable for 15 to 65mm length brads
- Suitable for 1.6mm and heavier 2.0mm diameter (16 and 14ga) straight brads
- No Mar(k) tip to prevent damage to timber and cladding surfaces

PASLODE® PF350-S POWERMASTER® FRAMING NAILER

- Paslode pneumatic technology
- Power and reliability for volume construction projects
- Durable construction
- High power
- Suitable for 50 to 90mm length nails
- Tool-free depth of drive adjustment

ECKO HAMMAHAND FC75 WEATHERBOARD NAILER

- User friendly depth adjustment for precision nailing
- No mark pad to prevent damage to cladding surfaces
- Runs both wire welded nails and wireless coil(r) nails, without any adjustment
- Tough nail magazine cover
- Suitable for 25 to 75mm length nails
- Nail head size - Flat head 7.0mm, Jolt head 4.5mm

ECKO HAMMAHAND FC75

ECKO HAMMAHAND XNOSE®

- User friendly design - screw on attachment
- Xnose® - hole location attachment, designed for Scyon Linea weatherboard face fixing
- Tough cover design
- Suitable for 25 to 90mm length nails

ECKO HAMMAHAND P90 AIRPUNCH®

ECKO HAMMAHAND P90 AIRPUNCH®

- Consistent nail punch
- No hammer mark over the surface of claddings
- Light weight - 1KG
- Belt hook design - Easy to carry on site
- Denailer feature

ECKO HAMMAHAND P90 AIRPUNCH®

ECKO HAMMAHAND V8 COMPRESSOR®

ECKO HAMMAHAND V8 COMPRESSOR®

- Light weight compact design - 18KG, easy to carry
- User friendly system - plug in, switch on, ready to go
- Steady base design - no moving around while driving
- Horse power: 1.5 HP peak
- Pump type: Oil-Less
- Pump-up time: 35 sec
- Recovery time: 10 sec
- SCFM@90PSI (6.2 bar): 2.3
- Works on 99.9% of nailing tools

ECKO AIR HOSE

ECKO AIR HOSE

- Light air hose
- Quick connect system - pull, insert, locked, ready to go
- Solid tough flexible material

ECKO EXTERIOR15® AIR ANGLE BRADDER 15GA

ECKO EXTERIOR15® AIR ANGLE BRADDER 15GA

- Solid driver blade, designed for tough material
- Brads are available in E/Galv & Stainless Steel
- Suitable for 25 to 50mm length nails
- User friendly depth adjustment, for precision nailing
- No mark pad to prevent damage to cladding surfaces

Screw guns

Use with Villaboard® Lining, HardieGroove™ Lining, HardieFlex™ Sheet and HardieSoffit™ Lining.

HITACHI WF18DSL 18V CORDLESS COLLATED SCREWDRIVER

- Super smooth and quiet operation thanks to Hitachi's silent multiple disc clutch system
- Accepts 25-41mm screws, simple tool-less adjustment
- Easy one-touch removal of feeder assembly for fast bit changes
- 2x 4.0Ah Li-ion batteries, fan-cooled smart charger and robust carry case.

HITACHI W4YD ELECTRIC COLLATED SCREWDRIVER

- High performance 470W motor
- Accepts 25-41mm screws, simple tool-less adjustment
- Convenient screw-feed reverse button
- Easy one-touch removal of feeder assembly for fast bit changes

MAKITA 6834 AUTO FEED SCREWDRIVER

- Tool-less Auto feed mechanism.
- 470w, 2,800rpm.
- 25mm-57mm screw capacity.

MAKITA BFR440RFE CORDLESS AUTO FEED SCREWDRIVER

- Tool-less auto feed mechanism.
- New lithium-ion battery technology.
- 14.4V 3.0Ah Li-ion, 4000 rpm.
- Fitted with reversing switch for convenience.
- 25mm - 41mm screw capacity.

MAKITA BFR550RFE CORDLESS AUTO FEED SCREWDRIVER

- Redesigned sturdy aluminium casing attachment
- Accepts screw length up to 55mm
- Stopper base provides anti-tilt device for preventing screws from swaying
- Silent clutch features high durability
- Screw guide designed to prevent collated screw strip from getting tangled
- Reversible
- Included accessories:
  Standard: 2x 3.0Ah Li-ion batteries (BL1830), 22min charger (DC18RA), carry case.

Also available as a 'skin' (tool only).

HITACHI WF18DSL 18V CORDLESS COLLATED

HITACHI W4YD ELECTRIC COLLATED

MAKITA 6834 AUTO FEED

MAKITA BFR440RFE CORDLESS AUTO FEED

MAKITA BFR550RFE CORDLESS AUTO FEED

MAKITA MODEL BTD146RFE

MAKITA MODEL BTD147RFE

HITACHI HIGH TORQUE DRILL D13VG

HITACHI EASY BEVEL – MODEL EBCOMBO

Screwdrivers

MAKITA MODEL BTD146RFE SCREWDRIVER

- Compact design with a short overall length of 138mm
- Enhanced dust and drip-proof performance
- Max fastening torque: 160Nm (1,420 inlbs)
- The power remaining in the battery can be indicated in 3 stages simply by pushing a button
- No need to pull bit sleeve for bit installation
- LED Job light with pre-glow and afterglow functions
- Included accessories:
- Standard: 2 x 3.0Ah Li-ion batteries (BL1830), 22min charger (DC18RA), belt clip, carry case

MAKITA MODEL BTD147RFE SCREWDRIVER

- Compact design with a short overall length of 138mm
- Enhanced dust and drip-proof performance
- Max fastening torque: 160Nm (1,420 inlbs)
- The power remaining in the battery can be indicated in 3 stages simply by pushing a button
- No need to pull bit sleeve for bit installation
- LED Job light with pre-glow and afterglow functions
- Included accessories:
- Standard: 2 x 3.0Ah Li-ion batteries (BL1830), 22min charger (DC18RA), belt clip, carry case

HITACHI HIGH TORQUE DRILL D13VG

- A specially designed slow speed drill which is ideal for drilling through fibre cement with tungsten carbide or diamond bits and holesaws.
- Maximum no-load speed - 600 RPM.
- Convenient variable speed control and reverse.
- Optional angle drilling attachment allows holes to be drilled in confined spaces.

Easy bevel

An efficient way to rebate the cut edges of Monotek® Sheet and Villaboard® Lining.

HITACHI EASY BEVEL – MODEL EBCOMBO

- Will grind a 40 x 1.5mm rebate
- Efficient dust extraction when used with vacuum attachment
- Fitted to a Heavy Duty Hitachi 125mm Angle Grinder (G13SB3)

Dustless cutting tools

SCORE AND SNAP KNIFE

For use with James Hardie products up to 7.5mm thickness.

- Twin blade tungsten tipped tool designed for scoring and snapping of fibre cement.

SCORE AND SNAP KNIFE

HAND GUILLOTINE

For effective cutting of fibre cement up to 9mm in thickness.

- The hand guillotine is a low dust solution for cutting fibre cement. Ideal for use indoors.

HAND GUILLOTINE

Snapper shear

For use with James Hardie products up to 16mm in thickness.

HITACHI SNAPPER SHEAR – MODEL SS10A

- The snapper shear is a solution for cutting James Hardie fibre cement products up to 16mm thickness.
- Impressive straight edge performance, the Snapper Shear will also cut accurate notches, gentle curves, and internal corners with ease.

HITACHI SNAPPER SHEAR 2 – MODEL SS10B

Accessories

TITANIUM DRILL BIT

TITANIUM DRILL BIT

- A 3mm Titanium Nitride coated twist drill for use with Scyon® Linea® Weatherboards

JAMES HARDIE TUNGSTEN CARBIDE DRILL BITS

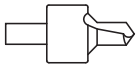
JAMES HARDIE TUNGSTEN CARBIDE DRILL BITS

- 9mm drill bit suitable for Titan Facade Panel and ExoTec Facade Panel.
- 18mm drill bit suitable for HardiePanel Compressed Sheet.
- A solid tungsten carbide drill for drilling and countersinking of fibre cement panels in one operation.
- Suitable for 10 gauge screws.
- Drill at approximately 450 to 560 RPM.

REMGRIT CARBIDE TIPPED HOLE SAW KIT

REMGRIT CARBIDE TIPPED HOLE SAW KIT

- Available from your local building merchant in 16mm - 114mm sizes.

Accessories/tools supplied by James Hardie		
Accessories	**Description**	**Code**
	HardieBlade™ Saw Blade Diamond tip 185mm diameter fibre cement circular saw blade.	**300660**
	HardieBlade™ Saw Blade Diamond tip 254mm diameter fibre cement circular saw blade.	**303375**
	**Tungsten Carbide Drill Bit** 9mm	**300567**
	Tungsten Carbide Drill Bit 18mm	**300566**

Website details

jameshardie.co.nz	-	James Hardie fibre cement products
hitachipowertools.co.nz	-	circular saws, compound mitre saws, dust extractors
makita.co.nz	-	circular saws, compound mitre saws, dust extractors
ecko.co.nz	-	nail guns
linbide.co.nz	-	accessories
festool.co.nz	-	circular saws, compound mitre saws, dust extractors
paslode.co.nz	-	nail guns

Additional installation information, warranties and warnings are available at www.jameshardie.co.nz

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